



PREMIUM LINE FLOODED L16RE-B

1600 CYCLES @ 50 % DOD

• TRULY DEEP CYCLE – MAXGUARD T2

- BCI Group 903, 6V
- Reserve Capacity [Ah@20hr rate]: 370
- Reserve Capacity [Ah@100hr rate]: 410
- Energy [kWh]: 2.46
- Weight: 118 lbs.
- Length: 11.67 in (296 mm)
- Width: 6.95 in (177 mm)
- Height: 17.56 in (446 mm)
- LT
- BAYONET / SINGLE POINT



Premium Line Flooded

The Premium Line features:

Alpha Plus® Paste with T2 Technology™ which optimizes porosity development in the active material enabling the active material to be used more effectively. This results in sustained battery performance over a longer period of time.

DuraGrid™ Design provides a thick grid structure that resists corrosion, and when combined with the Alpha Plus Paste with T2 technology, increases overall battery life.

Maxguard® XL Separator is exclusively available in Trojan's Premium and Industrial lines. It features a wide-channel design which increases acid flow for optimum battery performance, and provides even greater resistance to stratification, a typical mode of failure in batteries used in renewable energy systems.

The Polyon™ container is Trojan's ultra-rugged case design which protects against damage caused by harsh environmental conditions, such as moisture and dirt buildup, and safeguards against potential acid leaks.





DATA SHEET

MODEL L16RE-B
 VOLTAGE 6V
 CAPACITY 370Ah @ 20Hr
 MATERIAL Polypropylene
 BATTERY TYPE Deep Cycle Flooded / Wet Lead Acid Battery

6V



*Polyon™ Case

PRODUCT + PHYSICAL SPECIFICATIONS

| BCI Group Size | Type | Voltage | Cell(s) | Terminal Type ^G | Dimensions ^C Inches (mm) | | | Weight Lbs. (kg) |
|----------------|----------|---------|---------|----------------------------|-------------------------------------|------------|---------------------|------------------|
| | | | | | Length | Width | Height ^F | |
| 903 | L16RE-B* | 6 | 3 | 5 | 11.67 (296) | 6.95 (177) | 17.56 (446) | 118 (52) |
| | | | | | | | | |

ELECTRICAL SPECIFICATIONS

| Cranking Performance | | Capacity ^A Minutes | | Capacity ^B Amp-Hours (AH) | | | | | | | Energy (kWh) | Internal Resistance (mΩ) | Short Circuit Current (amps) |
|-----------------------------------|--------------------------------|-------------------------------|-----------|--------------------------------------|------|-------|-------|-------|-------|--------|--------------|--------------------------|------------------------------|
| C.C.A. ^D @ 0°F (-18°C) | C.A. ^E @ 32°F (0°C) | @ 25 Amps | @ 75 Amps | 2-Hr | 5-Hr | 10-Hr | 20-Hr | 48-Hr | 72-Hr | 100-Hr | 100-Hr | | |
| — | — | 766 | 180 | 241 | 303 | 340 | 370 | 394 | 403 | 410 | 2.46 | — | — |

CHARGING INSTRUCTIONS

| Charger Voltage Settings (at 77°F/25°C) | | | | | |
|---|------|-------|-------|-------|-------|
| System Voltage | 6V | 12V | 24V | 36V | 48V |
| Bulk Charge | 7.41 | 14.82 | 29.64 | 44.46 | 59.28 |
| Float Charge | 6.75 | 13.50 | 27.00 | 40.50 | 54.00 |
| Equalize Charge | 8.10 | 16.20 | 32.40 | 48.60 | 64.80 |

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

CHARGING TEMPERATURE COMPENSATION

| Add | Subtract |
|---|---|
| 0.005 volt per cell for every 1°C below 25°C | 0.005 volt per cell for every 1°C above 25°C |
| 0.0028 volt per cell for every 1°F below 77°F | 0.0028 volt per cell for every 1°F above 77°F |

OPERATIONAL DATA

| Operating Temperature | Self Discharge |
|--|--|
| -4°F to 122°F (-20°C to 50°C) At temperatures below 32°F (0°C) maintain a state of charge greater than 60% | Less than 3% per month depending on storage temperature conditions |

STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

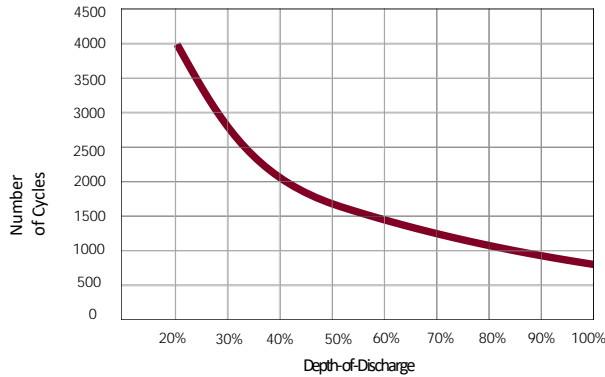
| Percentage Charge | Specific Gravity | Cell | 6Volt |
|-------------------|------------------|-------|-------|
| 100 | 1.277 | 2.122 | 6.37 |
| 90 | 1.258 | 2.103 | 6.31 |
| 80 | 1.238 | 2.083 | 6.25 |
| 70 | 1.217 | 2.062 | 6.19 |
| 60 | 1.195 | 2.040 | 6.12 |
| 50 | 1.172 | 2.017 | 6.05 |
| 40 | 1.148 | 1.993 | 5.98 |
| 30 | 1.124 | 1.969 | 5.91 |
| 20 | 1.098 | 1.943 | 5.83 |
| 10 | 1.073 | 1.918 | 5.75 |



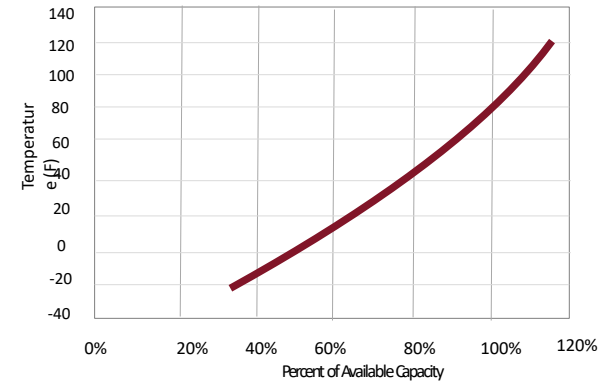
Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.



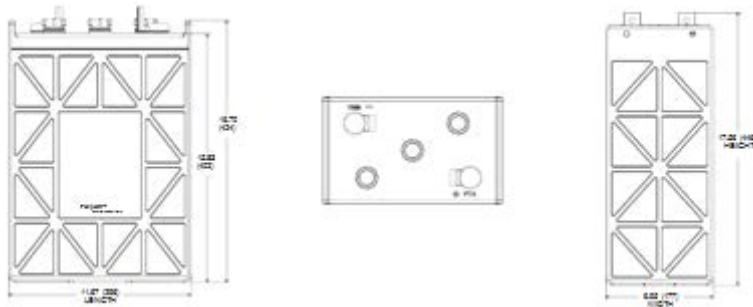
TYPICAL CYCLE LIFE IN A STATIONARY APPLICATION



PERCENT CAPACITY VS. TEMPERATURE



BATTERY DIMENSIONS



TERMINAL CONFIGURATION

| 5 | LT | L-Terminal |
|---|----|---|
| | | Terminal Height Inches (mm) 1.70 (43) |
| | | Torque Values in-lb (Nm) 95 – 105 (11 – 12) |
| | | Bolt 3/8" |
| | | |

EXPECTED LIFE VS. TEMPERATURE

Chemical reactions internal to the battery are driven by voltage and temperature. The higher the battery temperature, the faster chemical reactions will occur. While higher temperatures can provide improved discharge performance the increased rate of chemical reactions will result in a corresponding loss of battery life. As a rule of thumb, for every 10°C increase in temperature the reaction rate doubles. Thus, a month of operation at 35°C is equivalent in battery life to two months at 25°C. Heat is an enemy of all lead acid batteries, FLA, AGM and gel alike and even small increases in temperature will have a major influence on battery life.

SMART CARBON™

Deep-cycle batteries used in off-grid and unstable grid applications are heavily cycled at partial state of charge (PSOC). Operating at PSOC on a regular basis can quickly diminish the overall life of a battery, which results in frequent and costly battery replacements.

To address the impact of PSOC on deep-cycle batteries in renewable energy (RE), inverter backup and telecom applications, Trojan Battery has now included Smart Carbon™ as a standard feature in its Industrial and Premium flooded battery lines.

A. The amount of amp-hours (Ah) a battery can deliver when discharged at a constant rate at 86°F (30°C) for all rates and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
B. Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.

C. Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal.
D. Terminal images are representative only.
E. A boost charge should be performed every 6 months when batteries are in storage.
F. Weight may vary.